



OIPE

#2

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/056,414

DATE: 02/07/2002

TIME: 11:10:30

Input Set : N:\Crf3\RULE60\10056414.raw

Output Set: N:\CRF3\02072002\J056414.raw

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Stinchcomb, Dan T.
Draper, Kenneth G.
McSwiggen, James

(ii) TITLE OF INVENTION: RIBOZYME TREATMENT OF
DISEASES OR CONDITIONS
RELATED TO LEVELS OF
NF-KB

(iii) NUMBER OF SEQUENCES: 830

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Lyon & Lyon
(B) STREET: 633 West Fifth Street
Suite 4700
(C) CITY: Los Angeles
(D) STATE: California
(E) COUNTRY: U.S.A.
(F) ZIP: 90071-2066

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
storage
(B) COMPUTER: IBM Compatible
(C) OPERATING SYSTEM: IBM P.C. DOS 5.0
(D) SOFTWARE: Word Perfect 5.1

(vi) CURRENT APPLICATION DATA:

C--> (A) APPLICATION NUMBER: US/10/056,414
C--> (B) FILING DATE: 23-Jan-2002
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US/08/291,932A
(B) FILING DATE: August 15, 1994
(A) APPLICATION NUMBER: 08/245,466
(B) FILING DATE: May 18, 1994
(A) APPLICATION NUMBER: 07/987,132
(B) FILING DATE: December 7, 1992

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Warburg, Richard J.
(B) REGISTRATION NUMBER: 32,327
(C) REFERENCE/DOCKET NUMBER: 208/157

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (213) 489-1600
(B) TELEFAX: (213) 955-0440
(C) TELEX: 67-3510

ENTERED

RAW SEQUENCE LISTING

DATE: 02/07/2002

PATENT APPLICATION: US/10/056,414

TIME: 11:10:30

Input Set : N:\Crf3\RULE60\10056414.raw

Output Set: N:\CRF3\02072002\J056414.raw

79 (2) INFORMATION FOR SEQ ID NO: 1:

81 (i) SEQUENCE CHARACTERISTICS:

83 (A) LENGTH: 11

84 (B) TYPE: nucleic acid

85 (C) STRANDEDNESS: single

86 (D) TOPOLOGY: linear

88 (ix) FEATURE:

90 (D) OTHER INFORMATION: The letter "N" stands for

91 any base. "H" represents

92 nucleotide C, A, or U.

94 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

96 NNNNUHNNNN N

11

100 (2) INFORMATION FOR SEQ ID NO: 2:

102 (i) SEQUENCE CHARACTERISTICS:

104 (A) LENGTH: 32

105 (B) TYPE: nucleic acid

106 (C) STRANDEDNESS: single

107 (D) TOPOLOGY: linear

109 (ix) FEATURE:

111 (D) OTHER INFORMATION: The letter "N" stands for

112 any base.

114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

116 NNNNNCUGAN GAGNNNNNNN NNNCGAAANN NN

32

120 (2) INFORMATION FOR SEQ ID NO: 3:

122 (i) SEQUENCE CHARACTERISTICS:

124 (A) LENGTH: 14

125 (B) TYPE: nucleic acid

126 (C) STRANDEDNESS: single

127 (D) TOPOLOGY: linear

129 (ix) FEATURE:

131 (D) OTHER INFORMATION: The letter "N" stands for

132 any base.

134 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

136 NNNNNGUCNN NNNN

14

142 (2) INFORMATION FOR SEQ ID NO: 4:

144 (i) SEQUENCE CHARACTERISTICS:

146 (A) LENGTH: 50

147 (B) TYPE: nucleic acid

148 (C) STRANDEDNESS: single

149 (D) TOPOLOGY: linear

151 (ix) FEATURE:

153 (D) OTHER INFORMATION: The letter "N" stands for

154 any base.

156 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

158 NNNNNNAGAA NNNNACCAGA GAAACACACG UUGUGGUUAU UUACCUUGUA

50

162 (2) INFORMATION FOR SEQ ID NO: 5:

164 (i) SEQUENCE CHARACTERISTICS:

166 (A) LENGTH: 85

167 (B) TYPE: nucleic acid

RAW SEQUENCE LISTING DATE: 02/07/2002
 PATENT APPLICATION: US/10/056,414 TIME: 11:10:30

Input Set : N:\Crf3\RULE60\10056414.raw
 Output Set: N:\CRF3\02072002\J056414.raw

```

168          (C) STRANDEDNESS: single
169          (D) TOPOLOGY: linear
171      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
173 UGGCCGCAU GGUCCAGCC UCCUCGUGG CGCCGCGUGG GCAACAUUCC GAGGGGACCG      60
174 UCCCCUCGGU AAUGGCGAAU GGGAC                                          85
178 (2) INFORMATION FOR SEQ ID NO: 6:
180      (i) SEQUENCE CHARACTERISTICS:
182          (A) LENGTH: 176
183          (B) TYPE: nucleic acid
184          (C) STRANDEDNESS: single
185          (D) TOPOLOGY: linear
187      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
189 GGGAAAGCUU GCGAAGGGCG UCGUCGCCCC GAGCGGUAGU AAGCAGGGAA CUCACCUCCA      60
190 AUUUCAGUAC UGAAAUUGUC GUAGCAGUUG ACUACUGUUA UGUGAUUGGU AGAGGCUAAG      120
191 UGACGGUAUU GGCGUAAGUC AGUAUUGCAG CACAGCACAA GCCCGCUUGC GAGAAU          176
195 (2) INFORMATION FOR SEQ ID NO: 7:
197      (i) SEQUENCE CHARACTERISTICS:
199          (A) LENGTH: 15 base pairs
200          (B) TYPE: nucleic acid
201          (C) STRANDEDNESS: single
202          (D) TOPOLOGY: linear
204      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
206 AAUGGCUACA CAGGA                                          15
212 (2) INFORMATION FOR SEQ ID NO: 8:
214      (i) SEQUENCE CHARACTERISTICS:
216          (A) LENGTH: 15 base pairs
217          (B) TYPE: nucleic acid
218          (C) STRANDEDNESS: single
219          (D) TOPOLOGY: linear
221      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
223 AGCUCCUACG UGGUG                                          15
226 (2) INFORMATION FOR SEQ ID NO: 9:
228      (i) SEQUENCE CHARACTERISTICS:
230          (A) LENGTH: 15 base pairs
231          (B) TYPE: nucleic acid
232          (C) STRANDEDNESS: single
233          (D) TOPOLOGY: linear
235      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
237 CCUCCAUUGC GGACA                                          15
240 (2) INFORMATION FOR SEQ ID NO: 10:
242      (i) SEQUENCE CHARACTERISTICS:
244          (A) LENGTH: 15 base pairs
245          (B) TYPE: nucleic acid
246          (C) STRANDEDNESS: single
247          (D) TOPOLOGY: linear
249      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
251 GAUCUGUUUC CCCUC                                          15
254 (2) INFORMATION FOR SEQ ID NO: 11:
256      (i) SEQUENCE CHARACTERISTICS:

```

RAW SEQUENCE LISTING DATE: 02/07/2002
 PATENT APPLICATION: US/10/056,414 TIME: 11:10:30

Input Set : N:\Cr3\RULE60\10056414.raw
 Output Set: N:\CRF3\02072002\J056414.raw

```

258      (A) LENGTH: 15 base pairs
259      (B) TYPE: nucleic acid
260      (C) STRANDEDNESS: single
261      (D) TOPOLOGY: linear
263      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
265      AUCUGUUUCC CCUCA                                     15
268      (2) INFORMATION FOR SEQ ID NO: 12:
270      (i) SEQUENCE CHARACTERISTICS:
272      (A) LENGTH: 15 base pairs
273      (B) TYPE: nucleic acid
274      (C) STRANDEDNESS: single
275      (D) TOPOLOGY: linear
277      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
279      UUUUUUUUUU CUUUC                                     15
282      (2) INFORMATION FOR SEQ ID NO: 13:
284      (i) SEQUENCE CHARACTERISTICS:
286      (A) LENGTH: 15 base pairs
287      (B) TYPE: nucleic acid
288      (C) STRANDEDNESS: single
289      (D) TOPOLOGY: linear
291      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
293      CCCUUAUUU UCCCU                                     15
296      (2) INFORMATION FOR SEQ ID NO: 14:
298      (i) SEQUENCE CHARACTERISTICS:
300      (A) LENGTH: 15 base pairs
301      (B) TYPE: nucleic acid
302      (C) STRANDEDNESS: single
303      (D) TOPOLOGY: linear
305      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
307      CUUAUUUUU CCUCA                                     15
310      (2) INFORMATION FOR SEQ ID NO: 15:
312      (i) SEQUENCE CHARACTERISTICS:
314      (A) LENGTH: 15 base pairs
315      (B) TYPE: nucleic acid
316      (C) STRANDEDNESS: single
317      (D) TOPOLOGY: linear
319      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
321      UUAUUUUUCC CUCAG                                     15
324      (2) INFORMATION FOR SEQ ID NO: 16:
326      (i) SEQUENCE CHARACTERISTICS:
328      (A) LENGTH: 15 base pairs
329      (B) TYPE: nucleic acid
330      (C) STRANDEDNESS: single
331      (D) TOPOLOGY: linear
333      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
335      CAGGCUUUCG GGCCU                                     15
338      (2) INFORMATION FOR SEQ ID NO: 17:
340      (i) SEQUENCE CHARACTERISTICS:
342      (A) LENGTH: 15 base pairs

```

RAW SEQUENCE LISTING DATE: 02/07/2002
 PATENT APPLICATION: US/10/056,414 TIME: 11:10:30

Input Set : N:\Crif3\RULE60\10056414.raw
 Output Set: N:\CRF3\02072002\J056414.raw

```

343         (B) TYPE: nucleic acid
344         (C) STRANDEDNESS: single
345         (D) TOPOLOGY: linear
347     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
349     GGGCCUUAUG UGGAG                                     15
352 (2) INFORMATION FOR SEQ ID NO: 18:
354     (i) SEQUENCE CHARACTERISTICS:
356         (A) LENGTH: 15 base pairs
357         (B) TYPE: nucleic acid
358         (C) STRANDEDNESS: single
359         (D) TOPOLOGY: linear
361     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
363     UGAGAGCAUAC CGAAC                                     15
366 (2) INFORMATION FOR SEQ ID NO: 19:
368     (i) SEQUENCE CHARACTERISTICS:
370         (A) LENGTH: 15 base pairs
371         (B) TYPE: nucleic acid
372         (C) STRANDEDNESS: single
373         (D) TOPOLOGY: linear
375     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
377     AGAUCAUCCA ACAGC                                     15
380 (2) INFORMATION FOR SEQ ID NO: 20:
382     (i) SEQUENCE CHARACTERISTICS:
384         (A) LENGTH: 15 base pairs
385         (B) TYPE: nucleic acid
386         (C) STRANDEDNESS: single
387         (D) TOPOLOGY: linear
389     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
391     AUGCGAUUCC GCUAU                                     15
394 (2) INFORMATION FOR SEQ ID NO: 21:
396     (i) SEQUENCE CHARACTERISTICS:
398         (A) LENGTH: 15 base pairs
399         (B) TYPE: nucleic acid
400         (C) STRANDEDNESS: single
401         (D) TOPOLOGY: linear
403     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
405     UGCGAUUCCG CUAUA                                     15
408 (2) INFORMATION FOR SEQ ID NO: 22:
410     (i) SEQUENCE CHARACTERISTICS:
412         (A) LENGTH: 15 base pairs
413         (B) TYPE: nucleic acid
414         (C) STRANDEDNESS: single
415         (D) TOPOLOGY: linear
417     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:
419     UUCCGCUAUA AAUGC                                     15
422 (2) INFORMATION FOR SEQ ID NO: 23:
424     (i) SEQUENCE CHARACTERISTICS:
426         (A) LENGTH: 15 base pairs
427         (B) TYPE: nucleic acid

```

VERIFICATION SUMMARY

DATE: 02/07/2002

PATENT APPLICATION: US/10/056,414

TIME: 11:10:31

Input Set : N:\Crf3\RULE60\10056414.raw

Output Set: N:\CRF3\02072002\J056414.raw

L:45 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:46 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]